

Extend the Ethernet to 5Km~10Km
 EX9212LoRa-E
 (862~932MHz & +20dBm)

EXPERT
 DAQ

EX-9212LoRa-E



Specification :

CPU	32-bit MCU, 40MHz
RAM	16KB SRAM
ROM	128 K Bytes Flash ROM
Protocol	Support Modbus & Transparent
LoRa	Semtech SX1272
Freq. :	ISM band 862~936MHz
Receiver Sensitivity :	-137 dBm
Transmit Output Power :	20 dBm
Sleep Current :	3uA (at power down state)
TX current	< 140 mA@20 dbm , RX current < 10 mA
Security processor	(128/192/256 bits AES)
Packet engine up to 256 bytes with CRC	
Antenna :	SMA Type , 2 dBi , changeable
Distance :	Up To 1500~7500 Meters in free space
Data Rate :	0.244 ~ 18.2K bps (LoRa) / 300 K bps (FSK)
Application mode :	Star

Features

- LoRa gateways provide the way of connecting IoT remote units to a Local Area Network (LAN) or Host Computer from long distance. The data transmission via LoRa gateways mainly intended for the ISM (Industrial, Scientific, Medical) frequency bands at 862-932 MHz.
- The gateway has been built with the module integrated many RF functions and PA to make the maximum output power up to +20dBm.
- LoRa Interface Gateways are packaged in a plastic case well suited for industrial environments. LoRa Interface devices have different models for converting to Serial ports (RS-232, RS-422/485) and DI/DO, Ethernet, USB controller. Configuration is easy to set up via web page and utility tool.

Ethernet Port:

Port Type :	RJ-45 Connector
Speed :	10 / 100 Mbps (Auto Detect)
Protocol :	ARP , IP , ICMP , UDP , TCP , HTTP , DHCP
Mode :	TCP Server / TCP Client / UDP / Virtual Com / Pairing
Setup :	HTTP Browser Setup (IE)
Security :	Login Password
Protection :	Built-in 1.5KV Magnetic Isolation
Modbus TCP To RTU Slave & Modbus TCP To ASCII Slave Mode	
Modbus RTU To TCP Slave & Modbus ASCII To TCP Slave Mode	
Setup Tool :	Windows Utility
Power :	DC 9 ~ 24V / 150ma @ 9V , 60ma @ 24V
Led Lamp :	SYS (green) , Rx(red) , Tx(green)
Environment :	Operating Temperature: -10°C ~ 70°C Storage Temperature : -20°C ~ 80°C
Dimensions :	100 * 90 * 25 mm (W * D * H)

Order Information:

Optional : Din-Rail mounting kits
 Power supply(Linear/ Switching)
 Accessories : CD(Utility/ Exbrowser ; IP Search)
 Relative products: EX9212LoRa-S; EX9212LoRa-U;
 EX9212LoRa-DIO;EX9133C-2/PoE;
 EX9133C-RS232/PoE;EX9133C-RS485/PoE;
 EX9133C-2-MTCP; EX9133CST/DIO